

ABSTRACT

In a CDMA-system based mobile station or an equivalent,
to provide a high-precision measurement of a fading pitch
5 without using a plurality of branches (antennas) for receiving
a plurality of reception waves which may appear to have no
correlation to one another, a plurality of despreading devices
5a, 5b, 5c, 5d connected to a shared reception system is provided
for performing despreading for each multipath. Signals
10 outputted from the plurality of despreading devices 5a, 5b, 5c,
5d are synthesized with a phase difference in each multipath
being maintained by a first synthesizer 6 to obtain a
synthesized signal. A fading pitch f_D is detected based upon
the synthesized signal by a fading pitch detector 7